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AL732

Service Manual

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WARNING

To prevent from fire or shock hazard,do not expose monitor to any rain or any form of water.High voltage is inside the monitor so please do not remove the back cover of the cabinet if you are not a qualified monitor engineer.Contact the local dealer or the nearest **Acer** branch office if you need help.

A. IMPORTANT SAFETY INSTRUCTION

Prior to using this service manual,please ensure that you have carefully followed all the procedures outlined in the user's manual for this product.

1. Read all of these instructions.
2. Save these instructions.
3. Follow all warnings and instructions a marked on the product.
4. Unplug this product from the wall outlet before cleaning.Do not use liquid cleaners or aerosol cleaners, use a damp cloth for cleaning.
5. Do not use this product near water.
6. Do not place this product on an unstable cart,stand or table.The product may fall,causing serious damage to the product.
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation,to ensure reliable operation of the product and to protect it from overheating,those openings must not be blocked or covered.The openings should never be blocked by placing the product on a bed,sofa, rug, or other similar surface.This product should not be placed in a built-in installation less proper ventilation is provided.
8. This products should be operated from the type of power source indicated on the marketin label. If you are not sure of the type of power available, consult your dealer or local power company
9. This product is equipped with a 3-wire grounding type plug,a plug having a third (grounding) pin.This plug will only fit into a grounding-type power outlet.This is a safety feature,if you are unable to insert the plug into the outlet,contact your electrician to replace your obsolete outlet.Do not defeat the purpose of the grounding-type plug.
10. Do not allow anything to rest on the power cord.Do not locate this product where persons will walk on the cord.
11. If an extension cord is used with this product,make sure that the total of the ampere ratings on the product plugged into the extension cord to the waplugged into outlet does not exceed 15 ampere.
12. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock.Never spill liquid of any kind on the product.
13. Do not attempt to service this product yourself,as opening or removing covers may expose you to dangerous voltage points or other risks.Refer all servicing to service personnel.
14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
    - **a.** When the power cord or plug is damaged or frayed.
    - **b.** If liquid has been spilled into the product.
    - **c.** If the product has been exposed to rain or water.
    - **d.** If the product does not operate normally,when the operating instructions are followed.Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extension work by a qualified technician to restore the product to normal operation.
    - **e.** If the product has been dropped or the cabinet has been damaged.
    - **f.** If the product exhibits a distinct change in performance,indicating a need for service.

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B. SPECIFICATIONS

1. Maximum Resolution	1280 x 1024 @ 75Hz
2. Recommend Resolution	1280 x 1024 @ 60Hz
3. Synchronization Range	
Horizontal	30 – 80 KHz
Vertical	56– 75 Hz
4. Active Display Area	337mm (H) x 270mm (V)
5. Dot Pitch	0.264(H) x 0.264(V) mm
6. Support display colors	16.7M color
7. Contrast Ratio (Typical)	450
8.Luminance of White	260cd/m²
9. Bandwidth	135MHz
10. User Control	4 Key Switch
11. OSD Function	Brightness, Conrast, H-Position, V-Position, H-Size, Phase, Color Select, Auto, Reset, Language, OSD Adjust, Exit
12. View Angle	
Horizontal	160 Degrees
Vertical	160 Degrees
13. Power Source	100 – 240 Vac 60 / 50 Hz
14. Power Consumption	48W (max.)
15. Connection Type	15 Pin D-Sub / 24 Pin DVI
16. Input Signal	
Video	Analog R.G.B. , 0.7Vp-p / 75 Ohms
Sync.	TTL level,positive or negative polarity
17. Color Temperature	Cool / Natural / Warm
18. Dimension (WxHxD)	454mm x 460mm x 135mm
19. Monitor Weight	4.8 Kg
20. Base Operation	
Tilt	0 / + 15 degree
21. Power Saving	
ON	< 48W
STAND BY	< 5W
OFF	< 5W

22. Signal Connector Pin Assignment

Pin No.

1. Red	9. V_{DD} from PC for DDC
2. Green	10. Sync. Ground
3. Blue	11. Ground
4. Ground	12. SDA (For DDC)
5. Self Test	13. Horizontal Sync.
6. Red Ground	14. Vertical Sync.
7. Green Ground	15. SCL (For DDC)
8. Blue Ground	

23. Audio signal

3.5F stereo phone jack
Input Sensitivity : 200mV
2.5+2.5W 8O Speaker

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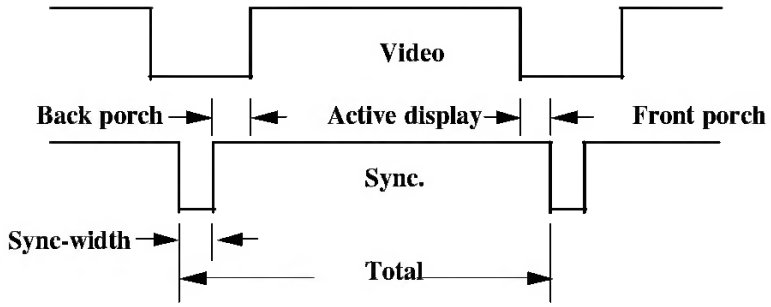
C.TIMING CHART



Preset / Modes	VGA 720X400	VGA 640X480	VESA 640X480	VESA 640X480	VESA 800X600	VESA 800X600	VESA 800X600
Pixel clock (MHz)	28.325	25.175	31.500	31.500	36.000	40.000	50.000
H-Frequency (KHz)	**31.472**	**31.469**	**37.861**	**37.500**	**35.156**	**37.879**	**48.077**
H-Total (µs)	31.774	31.778	26.413	26.667	28.444	26.400	20.800
H-Active Display (µs)	25.419	25.422	20.317	20.317	22.222	20.000	16.000
H-Blanking (µs)	6.355	6.356	6.095	6.349	6.222	6.400	4.800
Front Porch (µs)	0.635	0.636	0.762	0.508	0.667	1.000	1.120
H-Sync-width (µs)	3.813	3.813	1.270	2.032	2.000	3.200	2.400
H-Back Porch (µs)	1.906	1.907	4.063	3.810	3.556	2.200	1.280
V-Frequency (Hz)	**70.1**	**59.94**	**72.81**	**75.0**	**56.25**	**60.3**	**72.2**
V-Total (ms)	14.267	16.683	13.735	13.333	17.778	16.579	13.853
V-Active Display (ms)	12.710	15.253	12.678	12.800	17.067	15.840	12.480
V-Blanking (ms)	1.557	1.430	1.057	0.533	0.711	0.739	1.373
V-Front Porch (ms)	0.413	0.318	0.238	0.027	0.028	0.026	0.770
V-Sync-width (ms)	0.064	0.064	0.079	0.080	0.057	0.106	0.125
V-Back Porch (ms)	1.080	1.049	0.740	0.427	0.626	0.607	0.478
H/V Sync. Polarity	-+	--	--	--	++	++	++
Interlace	NONE	NONE	NONE	NONE	NONE	NONE	NONE

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Modes \ Preset	VESA 800X600	VESA 1024X768	VESA 1024X768	VESA 1024X768	VESA 1280X1024	VESA 1280X1024
Pixel clock (MHz)	49.500	65.000	75.000	78.750	108.00	135.00
H-Frequency (KHz)	**46.875**	**48.363**	**56.476**	**60.023**	**63.98**	**79.976**
H-Total (µs)	21.333	20.677	17.707	16.660	15.630	12.504
H-Active Display (µs)	16.162	15.754	13.563	13.003	11.852	9.481
H-Blanking (µs)	5.172	4.923	4.053	3.657	3.778	3.022
Front Porch (µs)	0.323	0.369	0.320	0.203	0.444	0.119
H-Sync-width (µs)	1.616	2.092	1.813	1.219	1.037	1.837
H-Back Porch (µs)	3.232	2.462	1.920	2.235	2.296	1.067
V-Frequency (Hz)	**75.0**	**60.0**	**70.1**	**75.0**	**60.02**	**75.025**
V-Total (ms)	13.333	16.666	14.272	13.328	16.661	13.329
V-Active Display (ms)	12.800	15.880	13.599	12.795	16.005	12.804
V-Blanking (ms)	0.533	0.786	0.673	0.533	0.656	0.525
V-Front Porch (ms)	0.021	0.062	0.053	0.017	0.016	0.013
V-Sync-width (ms)	0.064	0.124	0.106	0.050	0.047	0.038
V-Back Porch (ms)	0.448	0.600	0.513	0.466	0.594	0.475
H/V Sync. Polarity	++	--	--	++	++	++_
Interlace	NONE	NONE	NONE	NONE	NON	NON

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D CONTROL LOCATION

1. Menu Button (MENU)
2. Select Button (< , >)
3. Auto Button (AUTO)
4. Power Button
5. LED (Power Indicator)

1. S-VIDEO
2. DC IN
3. VIDEO IN
4. PC AUDIO IN
5. AUDIO OUT
6. DVI/VGA IN

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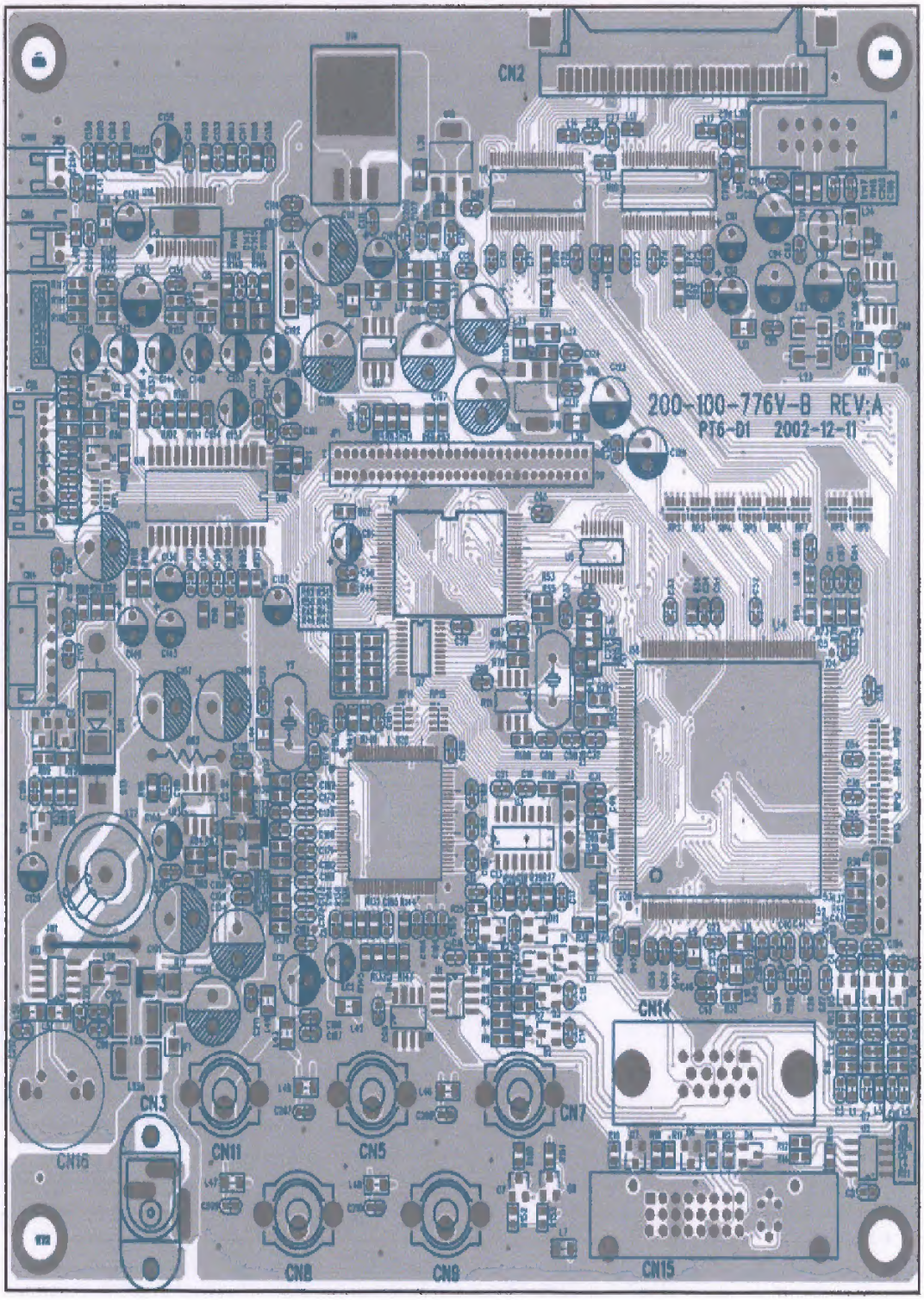
E. CONDUCTION VIEW

MAIN BOARD (Component Side)



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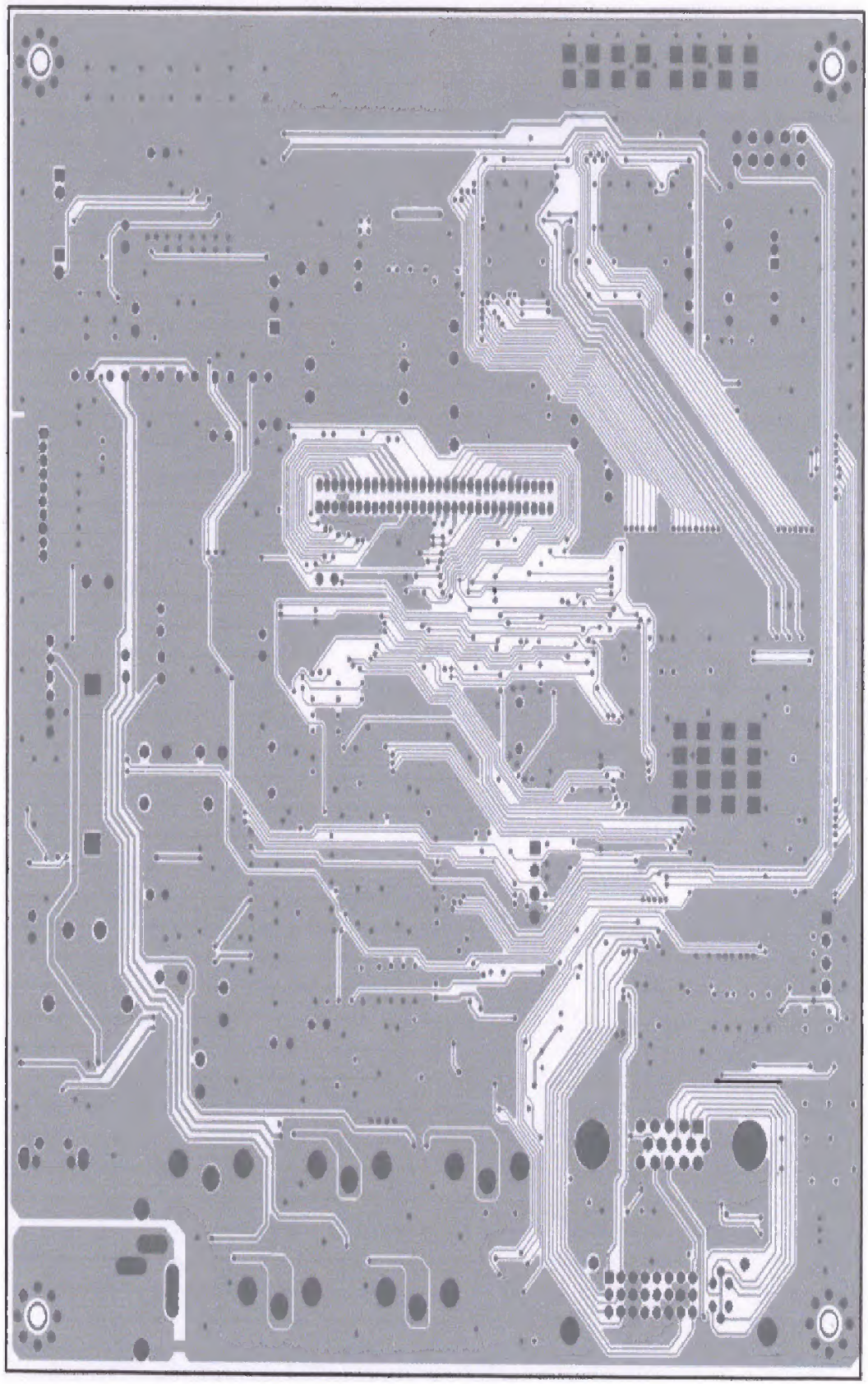
MAIN BOARD (Solder Side)



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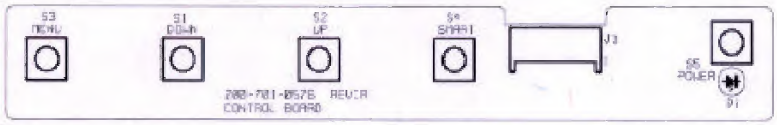
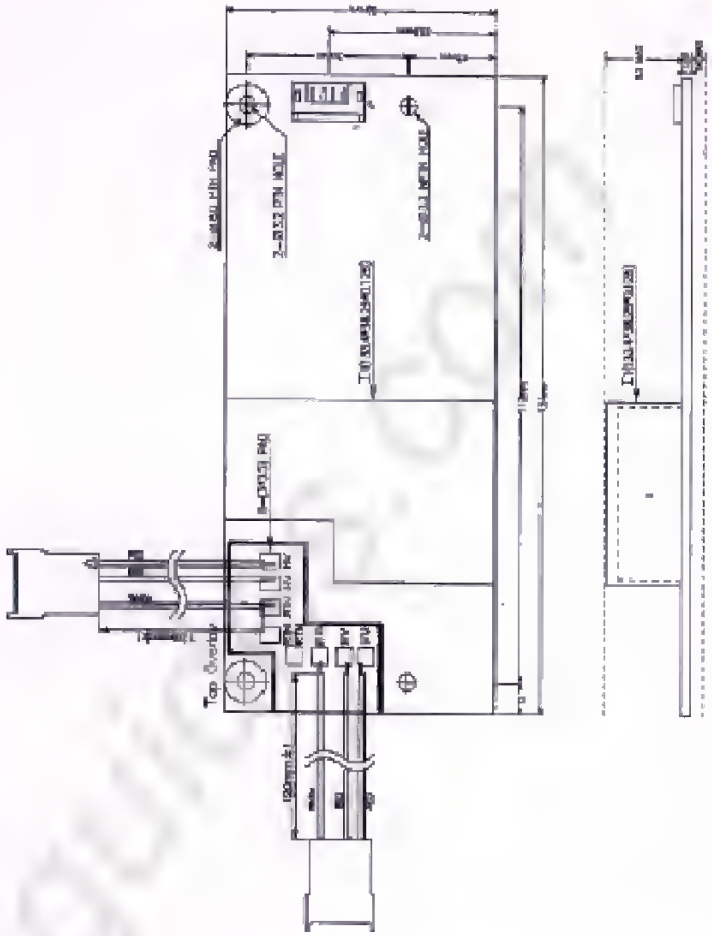
CONTROL BOARD (Component Side)



CONTROL BOARD (Solid Side)

6. OUTLINE DIMENSIONS (UNIT: mm)



DEFLECTION : 5mm MAX.

(TOLERANCE IS ±0.2 UNLESS OTHERWISE SPECIFIED)

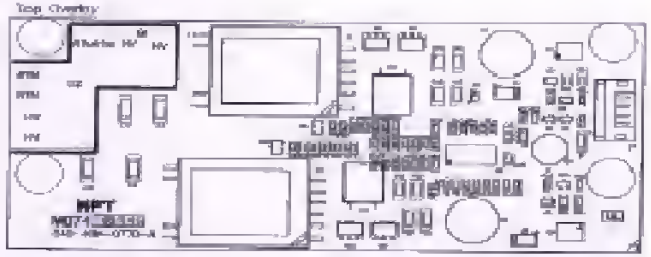
REV.	DATE	DESCRIPTION	DSGN.	APV.

MODEL	M074-2
DRAWN	NING HUANG
DESIGNED	TITAN
LEADER	
MANAGER	

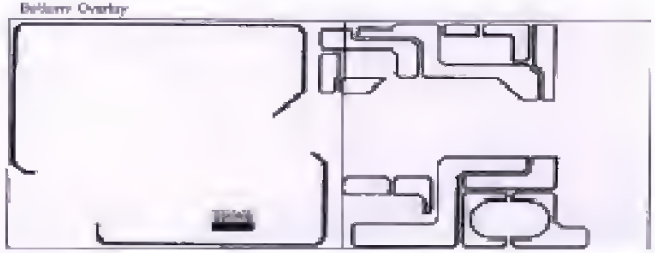
DATE

EMSAM0742

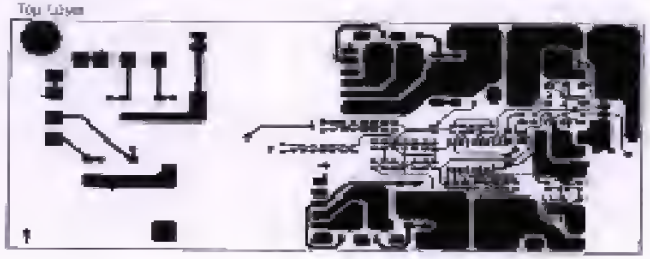
Top Overlay



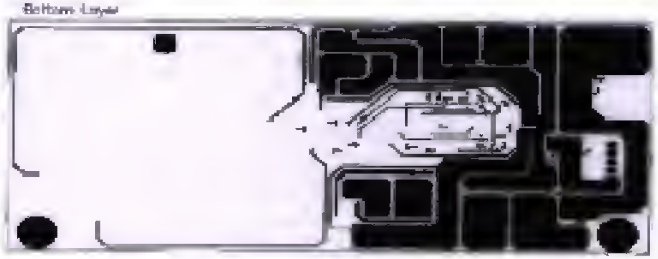
Bottom Overlay



Top Layer



Bottom Layer



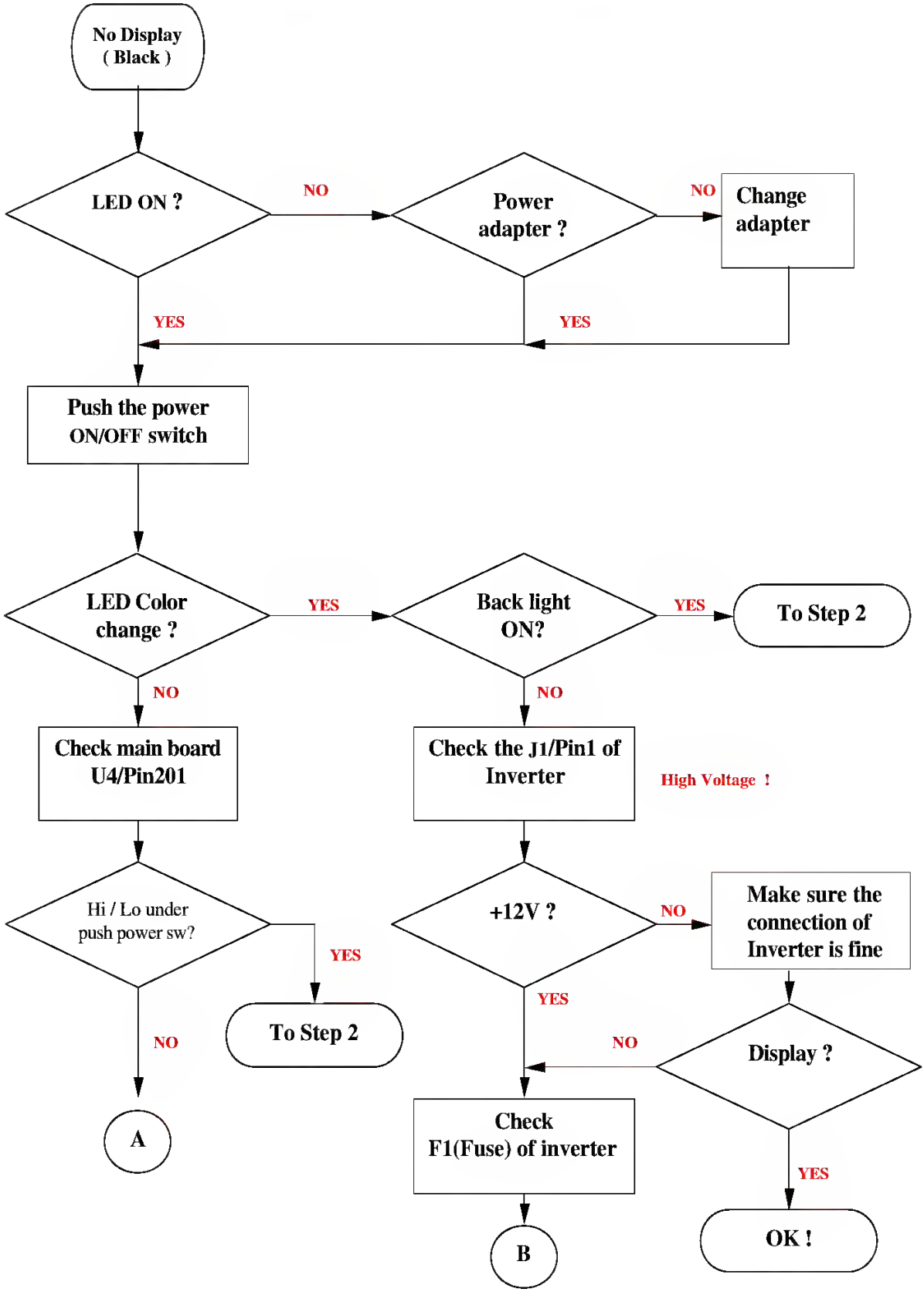
No.	変更・ISSUE No.	記事・REMARK	確認	材質・MATERIAL	処理 TREATMENT	承認 APPROVE	
外形 OUTLINE		3TFAN	作成 DRAWN		名称 TITLE	部品位置図	
検査・INSPECTION		ADVANCE ANSWER	上長 CHECKED		型式 MODEL	M074 2	
検査・CHECK list		良し	上長 APPROVED		尺度 SCALE	1/1	単位 UNIT mm
承認・APPRO			設計 DESIGN		図番・DWG No.	EPPAM0742	
承認・APPRO			作成 DRAWN				
株式会社							

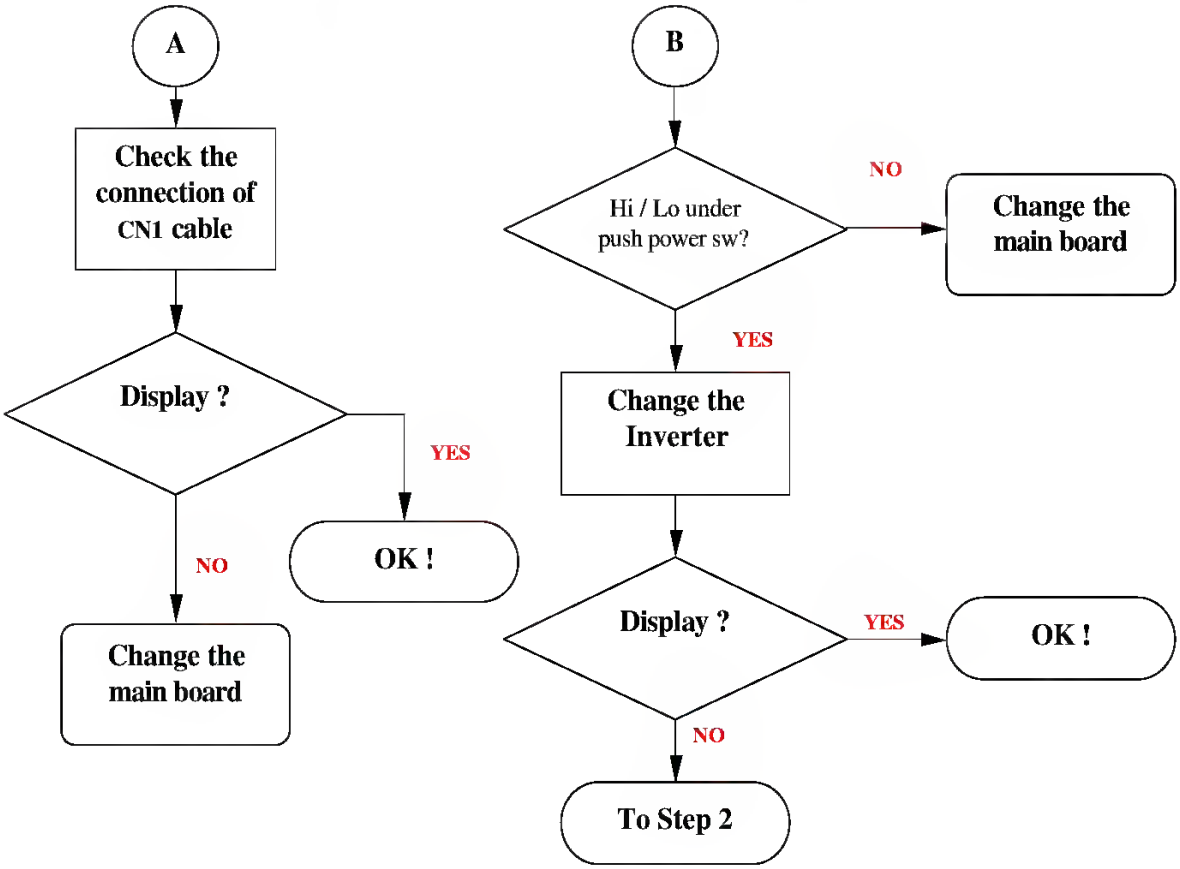
DRAWING No. EPPAM0742 DATE 2/10/01 SHEET 1/1

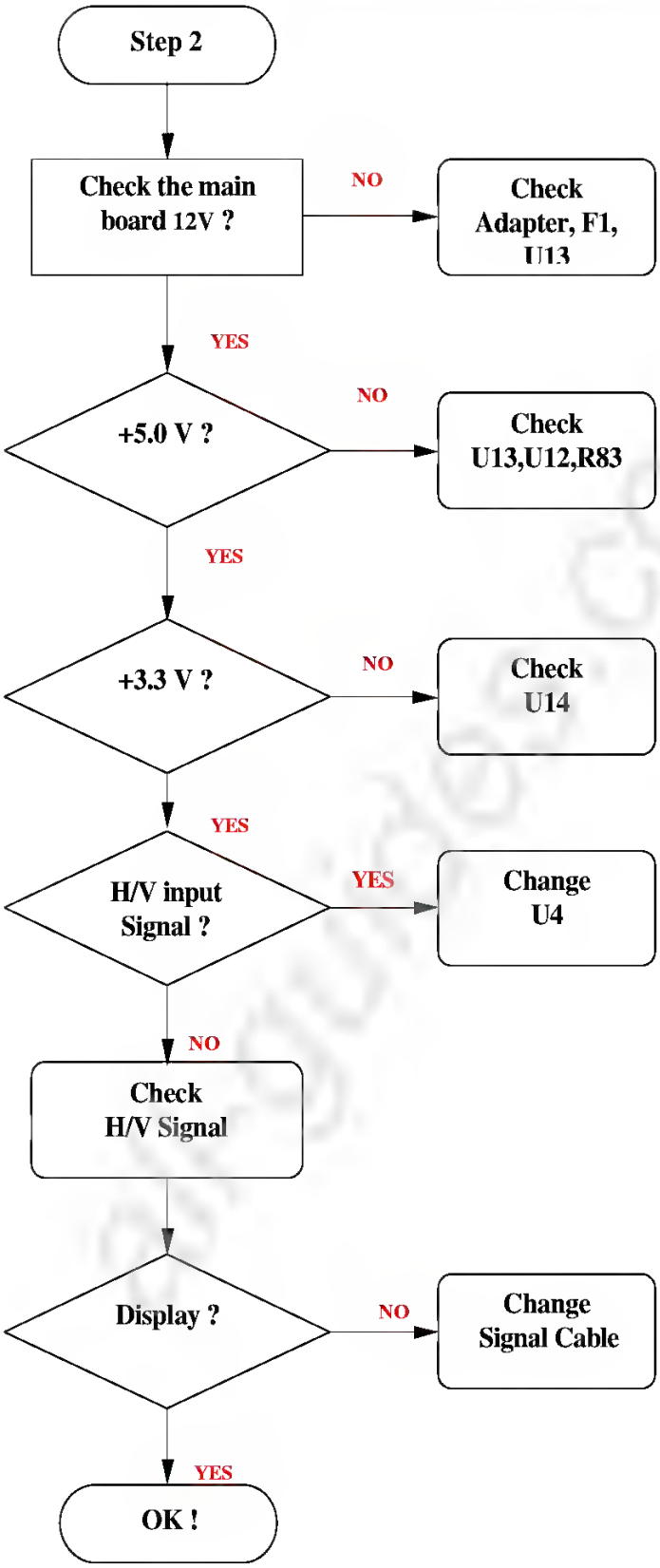
ADJUSTMENT PROCEDURE

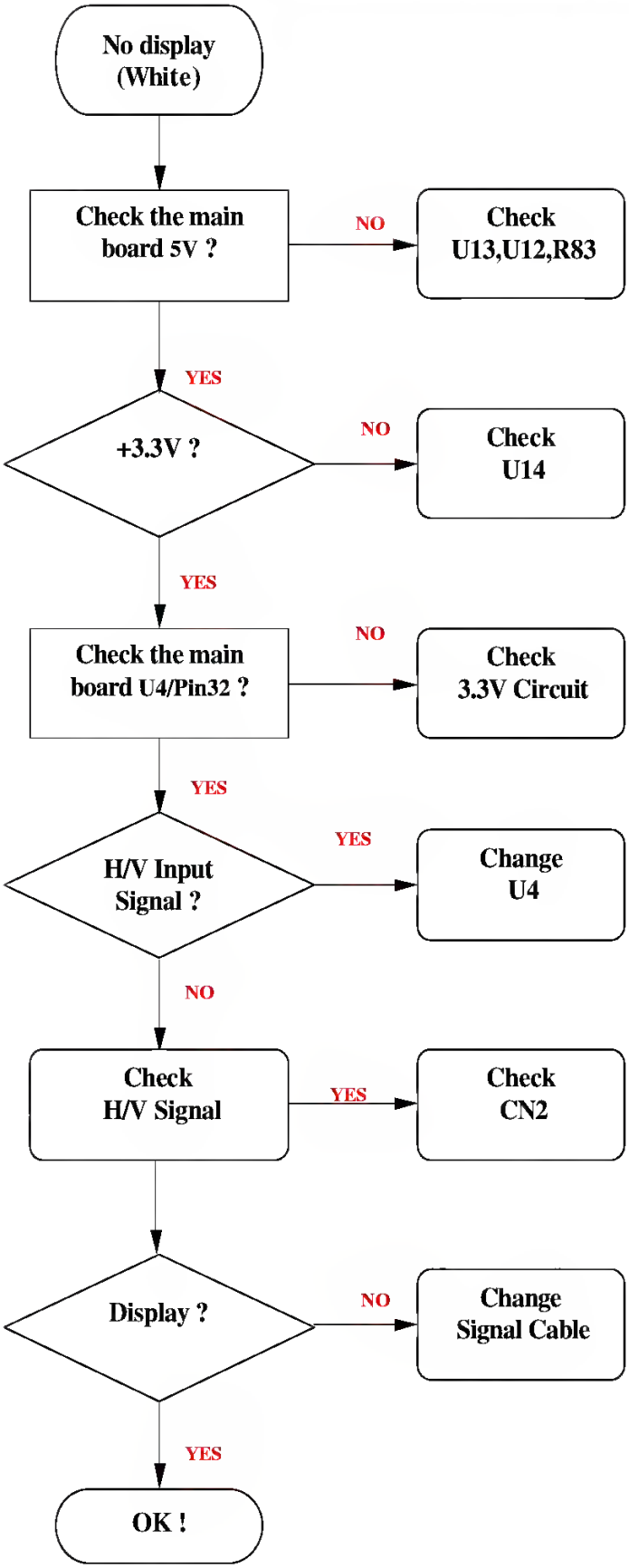
ITEM / Program Menu.		# Test Meter * Test Point @ Pattern	Operation	Check Value
A	**B+ Check**	# Digital Voltmeter * CN7 @ Crosshatch Pattern (31.5KHz,640x480)	1. Plug power cable into the adapter, check adapter power indicator light up green. 2. Make sure the voltage of the power plug (CN7) on the main PCB to the value shown at right.	12.0V ±0.2V
B	**Power Saving Check**	# Wattmeter # PC or Pattern generator @ Crosshatch Pattern (31.5KHz,640x480)	**1.** Unplug the signal cable from the monitor. **2.** Turn the power switch of the monitor **ON**. **3.** Check monitor power indicator light up orange. **4.** Make sure the wattmeter value shown under 5W. **5.** OSD will be display "**NO SIGNAL**" Picture.	‹ 5W
C	**Into Factory mode**	# PC or Pattern generator @ Crosshatch Pattern (31.5KHz,640x480)	**1.** Hold **<** key,then turn the power switch of the monitor **OFF**. **2.** Hold **>** key,then turn the power switch of the monitor **ON**. **3.** You can into factory adjustment mode.	
D	**Auto mode Check**	# PC or Pattern generator @ Crosshatch Pattern (1024x768/60Hz)	**1.** Press and relese the **MENU** knob to activate the OSD menu. **2.** Move the OSD to the **Auto adjust** function,press **MENU** key auto adjuat display mode to its utmost performance according to VGA setting. **3.** In the event of the display image needs further adjustment	
E	**White Balance Adjust**	# PC or Pattern generator @ White Pattern (1024x768/60Hz)	**1.** Move the OSD to the **COLOR mode** (AUTO COLOR). **2.** set color is **9300°K** using the OSD,Check the value shown at below. Y = 220 x = 0.283 y = 0.297 **2.** set color is **7500°K** using the OSD,Check the value shown at below. Y = 220 x = 0.299 y = 0.315 **3.** set color is **6500°K** using the OSD,Check the value shown at right. Y = 220 x = 0.311 y = 0.329	Y = 220 ±0.1FL x = 0.283 ±0.01 y = 0.297 ±0.01
F	**OSD Language Setting**	# PC or Pattern generator	**1.** Move the OSD to the **LANGUAGE mode.** **2.** You can choose one of the nine language you need.	

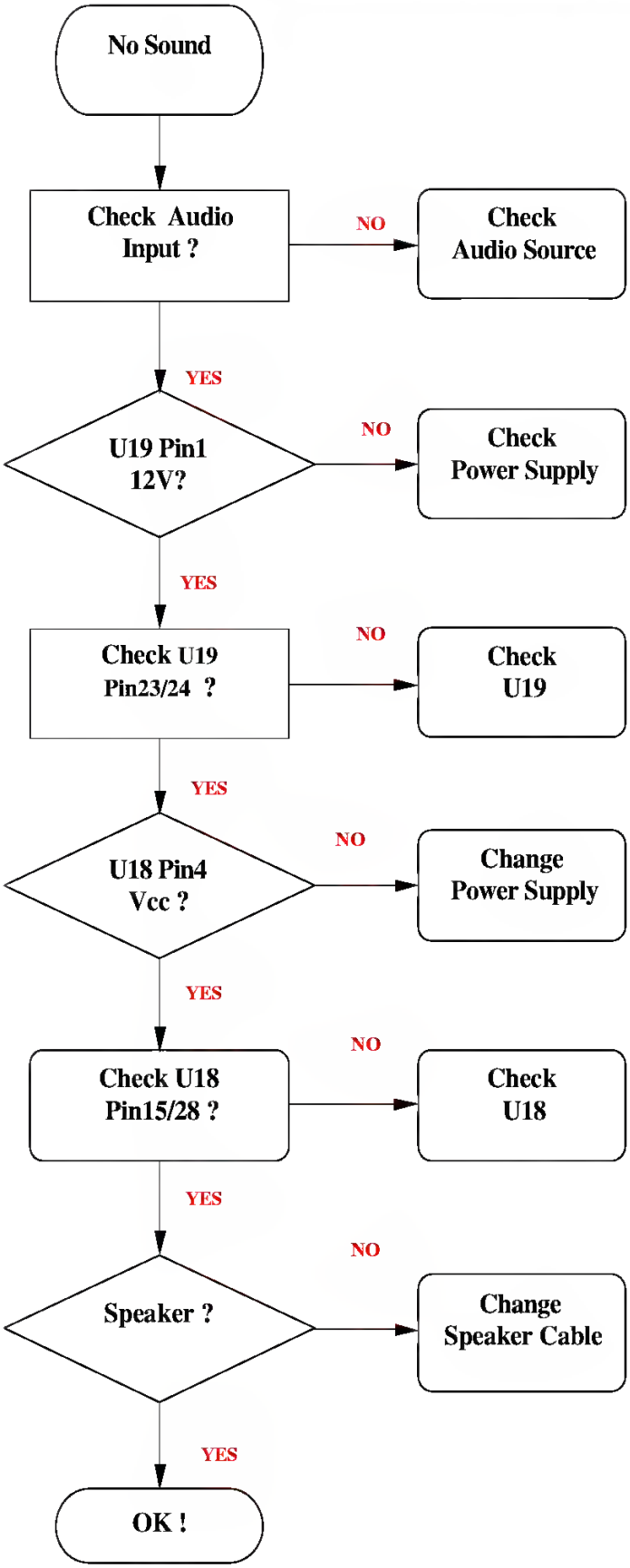
G. TROUBLE SHOOTING HINTS

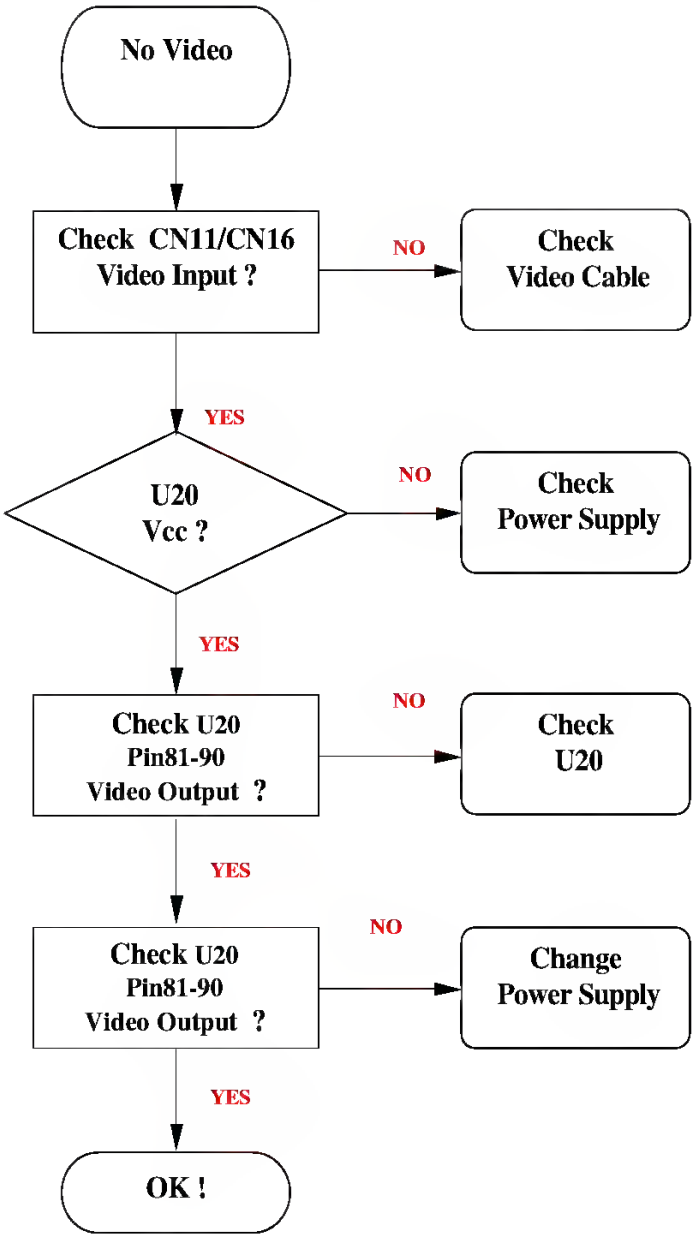



A
Check the connection of CN1 cable
Display ?
YES
OK !
NO
Change the main board
B
Hi / Lo under push power sw?
NO
Change the main board
YES
Change the Inverter
Display ?
YES
OK !
NO
To Step 2


Step 2
Check the main board 12V ?
NO
Check Adapter, F1, U13
YES
+5.0 V ?
NO
Check U13,U12,R83
YES
+3.3 V ?
NO
Check U14
YES
H/V input Signal ?
YES
Change U4
NO
Check H/V Signal
Display ?
NO
Change Signal Cable
YES
OK !


No display
(White)
Check the main
board 5V ?
NO
Check
U13,U12,R83
YES
+3.3V ?
NO
Check
U14
YES
Check the main
board U4/Pin32 ?
NO
Check
3.3V Circuit
YES
H/V Input
Signal ?
YES
Change
U4
NO
Check
H/V Signal
YES
Check
CN2
Display ?
NO
Change
Signal Cable
YES
OK !


No Sound
Check Audio Input ?
NO
Check Audio Source
YES
U19 Pin1 12V?
NO
Check Power Supply
YES
Check U19 Pin23/24 ?
NO
Check U19
YES
U18 Pin4 Vcc ?
NO
Change Power Supply
YES
Check U18 Pin15/28 ?
NO
Check U18
YES
Speaker ?
NO
Change Speaker Cable
YES
OK !


No Video
Check CN11/CN16
Video Input ?
NO
Check
Video Cable
YES
U20
Vcc ?
NO
Check
Power Supply
YES
Check U20
Pin81-90
Video Output ?
NO
Check
U20
YES
Check U20
Pin81-90
Video Output ?
NO
Change
Power Supply
YES
OK !

H. REPLACEMENT PARTS LIST

NO	Parts No.	Description	Part Location	Q'ty

PARTS LIST M074-2

SYM	PART NUMBER		DESCRIPTION	QUANT	ITEM NO.	MFRS.	INS.
C1	25MV100SGX+TS		CAPACTOR	1.	C01-004S	SANYO	
C2	N.A						
C3	C1608X7R1E104KT	OR	CAPACTOR	1.	C03-065T	TDK	
	GRM39X7R104K25				C03-065U	MURATA	
C4	C1608X7R1E104KT	OR	CAPACTOR	1.	C03-065T	TDK	
	GRM39X7R104K25				C03-065U	MURATA	
C5	N.A						
C6	C1608X7R1E104KT	OR	CAPACTOR	1.	C03-065T	TDK	
	GRM39X7R104K25				C03-065U	MURATA	
C7	N.A						
C8	C1608X7R1H681KT	OR	CAPACTOR	1.	C03-082T	TDK	
	GRM39X7R681K50				C03-082U	MURATA	
C9	N.A						
0	C2012Y5V1C225ZT		CAPACTOR	1.	C03-446T	TDK	
C11	RSBEC3180DQJ		CAPACTOR	1.	C02-016R	ARCO	
C12	302R29N270JV4E	OR	CAPACTOR	1.	C04-466J	JOHANSON	
	C1808N270J302T				C04-466H	HOLY STONE	
C13	302R29N270JV4E	OR	CAPACTOR	1.	C04-466J	JOHANSON	
	C1808N270J302T				C04-466H	HOLY STONE	
C14	N.A						
C15	C1608X7R1E104KT	OR	CAPACTOR	1.	C03-065T	TDK	
	GRM39X7R104K25				C03-065U	MURATA	
C17	RSBEC3180DQJ		CAPACTOR	1.	C02-016R	ARCO	
C18	302R29N270JV4E	OR	CAPACTOR	1.	C04-466J	JOHANSON	
	C1808N270J302T				C04-466H	HOLY STONE	
C19	302R29N270JV4E	OR	CAPACTOR	1.	C04-466J	JOHANSON	
	C1808N270J302T				C04-466H	HOLY STONE	
C20	N.A						
'1	C1608X7R1E104KT	OR	CAPACTOR	1.	C03-065T	TDK	
	GRM39X7R104K25				C03-065U	MURATA	
C22	C1608Y5V1A105ZT	OR	CAPACTOR	1.	C03-487T	TDK	
	GRM39Y5V105Z10				C03-476U	MURATA	
C23	N.A						
C24	C1608Y5V1A105ZT	OR	CAPACTOR	1	C03-487T	TDK	
	GRM39Y5V105Z10				C03-476U	MURATA	
C27	N.A						

PARTS LIST M074-2

SYM	PART NUMBER		DESCRIPTION	QUANT	ITEM NO.	MFRS.	INS.
C28	N.A						
C29	C2012Y5V1C225ZT		CAPACTOR	1.	C03-446T	TDK	
C30	C1608Y5V1A105ZT	OR	CAPACTOR	1.	C03-487T	TDK	
	GRM39Y5V105Z10				C03-476U	MURATA	
C31	C1608Y5V1A105ZT	OR	CAPACTOR	1.	C03-487T	TDK	
	GRM39Y5V105Z10				C03-476U	MURATA	
R2	RC0805FR-220R	OR	RESISTOR	1.	R02-034Y	YAGEO	
	RMC10P2200F				R02-034K	KAMAYA	
R3	RC0603FR-10K	OR	RESISTOR	1.	R01-077Y	YAGEO	
	RMC16P1002F				R01-077K	KAMAYA	
R4	N.A						
R6	RC0603FR-100K	OR	RESISTOR	1.	R01-102Y	YAGEO	
	RMC16P1003F				R01-102K	KAMAYA	
7	RC0603FR-100K	OR	RESISTOR	1.	R01-102Y	YAGEO	
	RMC16P1003F				R01-102K	KAMAYA	
R8	RC0603FR-750K	OR	RESISTOR	1.	R01-124Y	YAGEO	
	RMC16P7503F				R01-124K	KAMAYA	
R9	RC0603FR-10K	OR	RESISTOR	1.	R01-077Y	YAGEO	
	RMC16P1002F				R01-077K	KAMAYA	
R10	RC0603FR-10K	OR	RESISTOR	1.	R01-077Y	YAGEO	
	RMC16P1002F				R01-077K	KAMAYA	
R11	RC0603FR-10K	OR	RESISTOR	1.	R01-077Y	YAGEO	
	RMC16P1002F				R01-077K	KAMAYA	
R12	N.A						
R13	RC0805FR-3K	OR	RESISTOR	1.	R02-062Y	YAGEO	
	RMC10P3001F				R02-062K	KAMAYA	
R14	N.A						
R15	N.A						
6	RC0603FR-33K	OR	RESISTOR	1.	R01-088Y	YAGEO	
	RMC16P3302F				R01-088K	KAMAYA	
R17	N.A		RESISTOR				
R18	RC1206FR-1K	OR	RESISTOR	1.	R03-052Y	YAGEO	
	RMC14P1001F				R03-052K	KAMAYA	
R19	RC0603FR-1K	OR	RESISTOR	1.	R01-052Y	YAGEO	
	RMC16P1001F				R01-052K	KAMAYA	
R20	RC0805FR-62K	OR	RESISTOR	1.	R02-097Y	YAGEO	

PARTS LIST M074-2

SYM	PART NUMBER		DESCRIPTION	QUANT	ITEM NO	MFRS.	INS.
R20	RMC10P6202F		RESISTOR	1.	R02-097K	KAMAYA	
R21	RC0603FR-100K	OR	RESISTOR	1.	R01-102Y	YAGEO	
	RMC16P1003F				R01-102K	KAMAYA	
R22	RC0603FR-51K	OR	RESISTOR	1.	R01-093Y	YAGEO	
	RMC16P5102F				R01-093K	KAMAYA	
R23	RC0603FR-47K	OR	RESISTOR	1.	R01-092Y	YAGEO	
	RMC16P4702F				R01-092K	KAMAYA	
R24	RC0805FR-3K	OR	RESISTOR	1.	R02-062Y	YAGEO	
	RMC10P3001F				R02-062K	KAMAYA	
R25	N.A						
R26	N.A						
R27	RC0603FR-33K	OR	RESISTOR	1.	R01-088Y	YAGEO	
	RMC16P3302F				R01-088K	KAMAYA	
R28	RC1206FR-1K	OR	RESISTOR	1.	R03-052Y	YAGEO	
	RMC14P1001F				R03-052K	KAMAYA	
R29	N.A						
R30	RC0603FR-1K	OR	RESISTOR	1.	R01-052Y	YAGEO	
	RMC16P1001F				R01-052K	KAMAYA	
R31	RC0805FR-62K	OR	RESISTOR	1.	R02-097Y	YAGEO	
	RMC10P6202F				R02-097K	KAMAYA	
R32	RC0603FR-100K	OR	RESISTOR	1.	R01-102Y	YAGEO	
	RMC16P1003F				R01-102K	KAMAYA	
R33	RC0603FR-51K	OR	RESISTOR	1.	R01-093Y	YAGEO	
	RMC16P5102F				R01-093K	KAMAYA	
R34	RC0603FR-62K	OR	RESISTOR	1.	R01-097Y	YAGEO	
	RMC16P6202F				R01-097K	KAMAYA	
R35	RC0603FR-62K	OR	RESISTOR	1.	R01-097Y	YAGEO	
	RMC16P6202F				R01-097K	KAMAYA	
R36	RC0603FR-10K	OR	RESISTOR	1.	R01-077Y	YAGEO	
	RMC16P1002F				R01-077K	KAMAYA	
R37	RC0603FR-10K	OR	RESISTOR	1.	R01-077Y	YAGEO	
	RMC16P1002F				R01-077K	KAMAYA	
R38	RC0603FR-100R	OR	RESISTOR	1.	R01-027Y	YAGEO	
	RMC16P1000F				R01-027K	KAMAYA	
R39	RC0603FR-100R	OR	RESISTOR	1.	R01-027Y	YAGEO	
	RMC16P1000F				R01-027K	KAMAYA	

PARTS LIST M074-2

SYM	PART NUMBER		DESCRIPTION	QUANT	ITEM NO	MFRS.	INS.
R40	N.A						
R41	RC1206FR-1K	OR	RESISTOR	1.	R03-052Y	YAGEO	
	RMC14P1001F				R03-052K	KAMAYA	
R42	N.A						
R43	RC1206FR-1K	OR	RESISTOR	1.	R03-052Y	YAGEO	
	RMC14P1001F				R03-052K	KAMAYA	
R44	N.A						
R45	N.A						
J1	JS-1125R-06	OR	CONNECTOR	1.	J01-002Y	CHYAO SHIUN	
	JH2-20-0648				J01-002B	FCN	
G1	C002		CABLE	1	G02-003J	JST	
G2	C002		CABLE	1.	G02-003J	JST	
F1	3216FF 3A	OR	FUSE	1.	F01-003B	BUSINNES	
	C1Q3A				F01-003E	BEL	
B1	M074-2	OR	PCB	1.	B02-074P-2/3	POL	
	M074-2	OR			B02-074G-2/3	GLOBAL FLEX	
	M074-2	OR			B02-074E-2/3	CHFER TIME	
	M074-2				B02-074Y-2/3	CHIAN YOU	
T1	T08118	OR	TRANSFORMER	1.	T02-033T	TMP	
	TME011925065				T02-033R	TRANSMORE	
T2	T08118	OR	TRANSFORMER	1.	T02-033T	TMP	
	TME011925065				T02-033R	TRANSMORE	
L1	D108C-101K	OR	INDUCTOR	1.	L01-023L	LONGVIEW	
	RCP1008-101K				L01-023S	STAR	
L2	D108C-101K	OR	INDUCTOR	1.	L01-023L	LONGVIEW	
	RCP1008-101K				L01-023S	STAR	
U1	BA9741FP-E2		IC	1.	U02-005R	ROHM	
D1	SS24	OR	DIODE	1.	D02-004W	ZOWIE	
	SMA240LV				D02-002F	FCI	
D3	UDZS TE-1713B	OR	DIODE	1.	D03-018R	ROHM	
	KDZ13V				D03-018K	KEC	
D5	MA157A	OR	DIODE	1.	D01-002P	PANASONIC	
	DAN217 T146	OR			D01-002R	ROHM	
	1SS226-TE85L				D01-002T	TOSHIBA	
D6	SS24	OR	DIODE	1.	D02-004W	ZOWIE	
	SMA240LV				D02-002F	FCI	

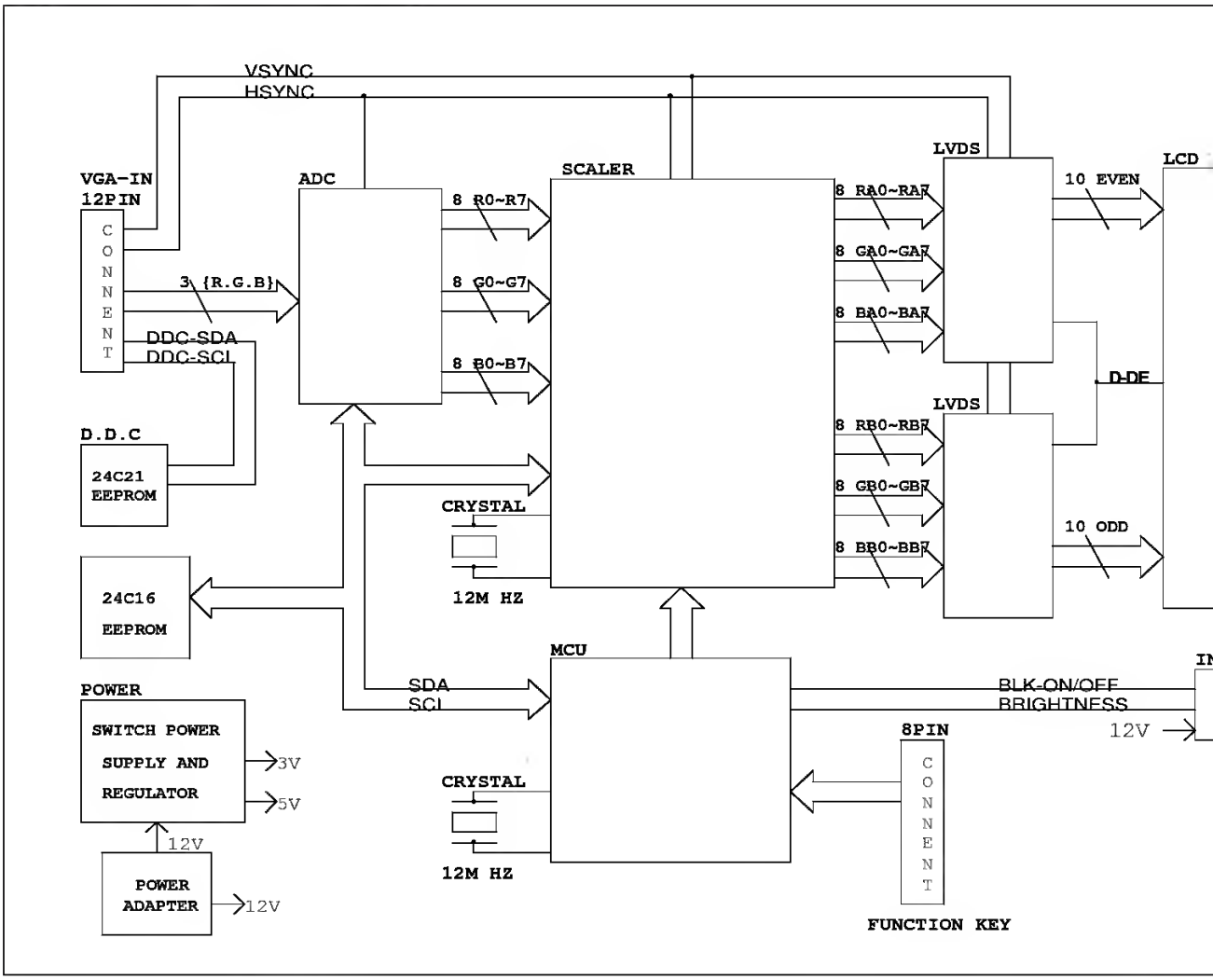
PARTS LIST M074-2

SYM	PART NUMBER		DESCRIPTION	QUANT	ITEM NO.	MFRS.	NS.
D8	UDZS TE-1713B	OR	DIODE	1.	D03-018R	ROHM	
	KDZ13V				D03-018K	KEC	
D10	MA157A	OR	DIODE	1.	D01-002P	PANASONIC	
	DAN217 T146	OR			D01-002R	ROHM	
	1SS226-TE85L				D01-002T	TOSHIBA	
Q1	DTC114EUA T106	OR	TRANSISTOR	1.	Q02-002R	ROHM	
	UN5211-TX(TW)				Q02-002P	PANASONIC	
Q2	DTA114EUA T106	OR	TRANSISTOR	1.	Q01-002R	ROHM	
	UN5111-TX(TW)				Q01-002P	PANASONIC	
Q3	2SC4081R T106	OR	TRANSISTOR	1.	Q02-001R	ROHM	
	2SD1819A-R-TX(TW)				Q02-001P	PANASONIC	
Q4	CEM9435A	OR	TRANSISTOR	1.	Q03-002C	CET	
	FSS140-TL	OR			Q03-002Y	SANYO	
	SI9435DY-T1				Q03-002I	SILICONIX	
Q5	2SA1576AR T106	OR	TRANSISTOR	1.	Q01-001R	ROHM	
	2SB1218A-R/S-TX(TW)				Q01-001P	PANASONIC	
Q6	2SD1624T-TD	OR	TRANSISTOR	1.	Q02-006Y	SANYO	
	KTD1624C				Q02-006K	KEC	
Q7	2SD1624T-TD	OR	TRANSISTOR	1.	Q02-006Y	SANYO	
	KTD1624C				Q02-006K	KEC	
Q8	CEM9435A	OR	TRANSISTOR	1.	Q03-002C	CET	
	FSS140-TL	OR			Q03-002Y	SANYO	
	SI9435DY-T1				Q03-002I	SILICONIX	
Q9	2SC4081R T106	OR	TRANSISTOR	1.	Q02-001R	ROHM	
	2SD1819A-R-TX(TW)				Q02-001P	PANASONIC	
Q10	2SA1576AR T106	OR	TRANSISTOR	1.	Q01-001R	ROHM	
	2SB1218A-R/S-TX(TW)				Q01-001P	PANASONIC	
Q11	2SD1624T-TD	OR	TRANSISTOR	1.	Q02-006Y	SANYO	
	KTD1624C				Q02-006K	KEC	
Q12	2SD1624T-TD	OR	TRANSISTOR	1.	Q02-006Y	SANYO	
	KTD1624C				Q02-006K	KEC	
V1	1080 RTV		矽膠	1/400	V01-002I	DOW CORNING	
I1	絕緣片(133.4*38.25*0.125)mm		ISOLATION	1.	I01-022W	WAIH PONG	
P1	220*65*0.09m/m(靜電袋)		PACKING	1.	P01-002W	WEI CHYI	
P2	L470*W245*H530m/m(紙箱)		PACKING	1/200	P01-006J	JONG SON	
P3	L460*W235m/m(紙盒)		PACKING	3/200	P01-007J	JONG SON	

PARTS LIST M074-2

SYM	PART NUMBER	DESCRIPTION	QUANT	ITEM NO.	MFRS.	DIS.
P4	L460*W235*H250mm(內箱尺寸)	PACKING	1/ea	P01-0083	JONG SON	

I. BLOCK DIAGRAM



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J. SCHEMATIC DIAGRAM

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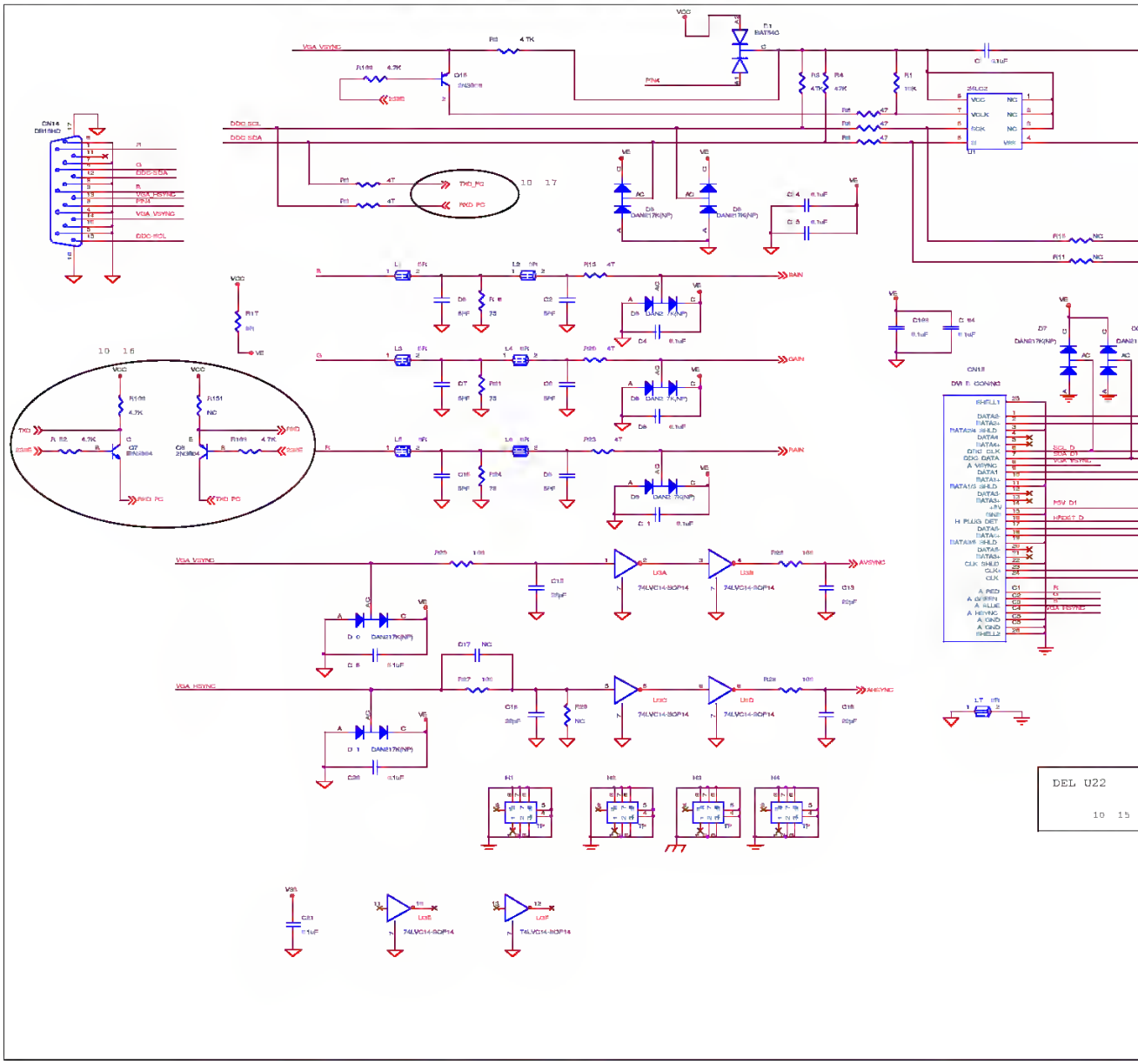
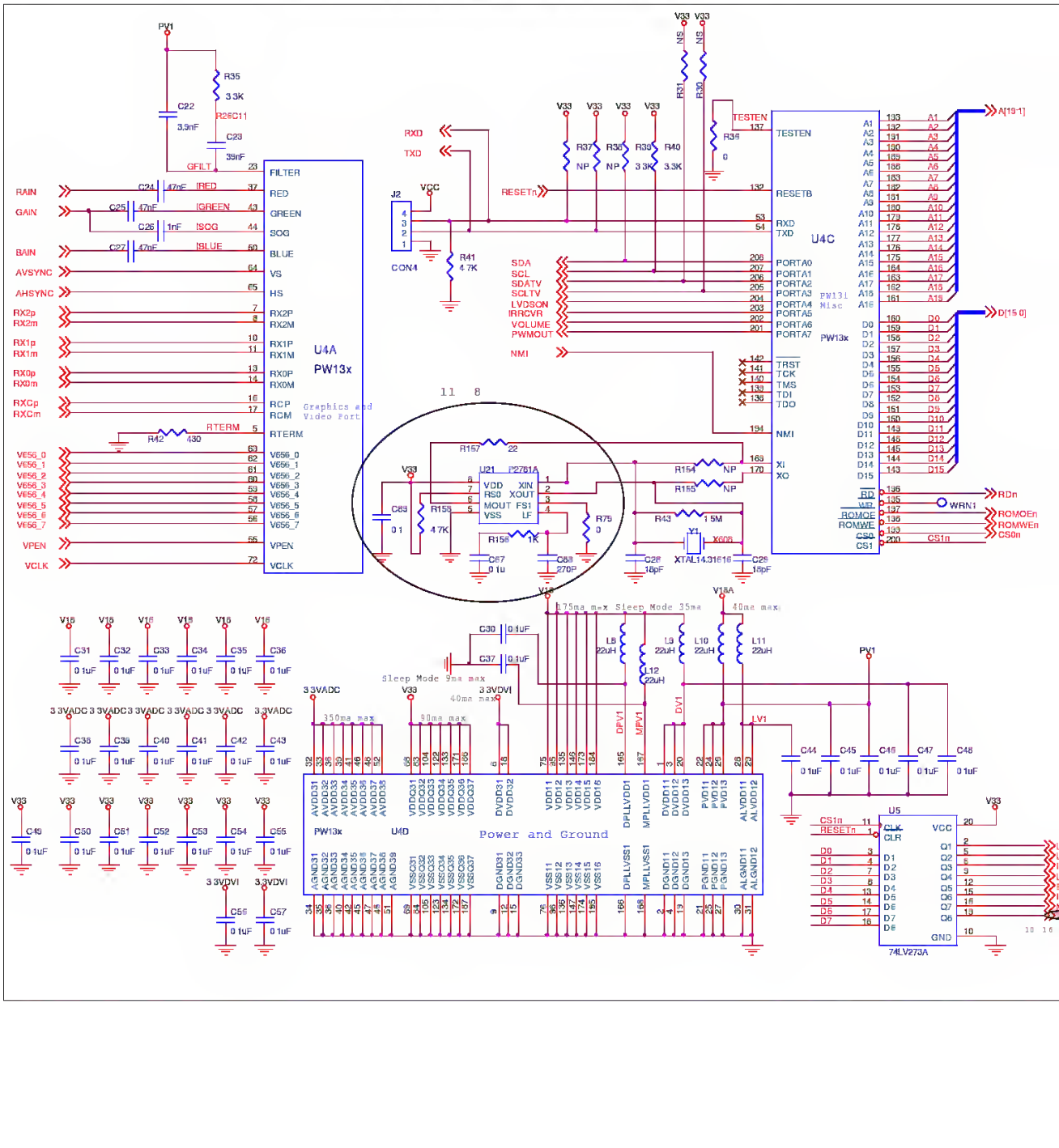
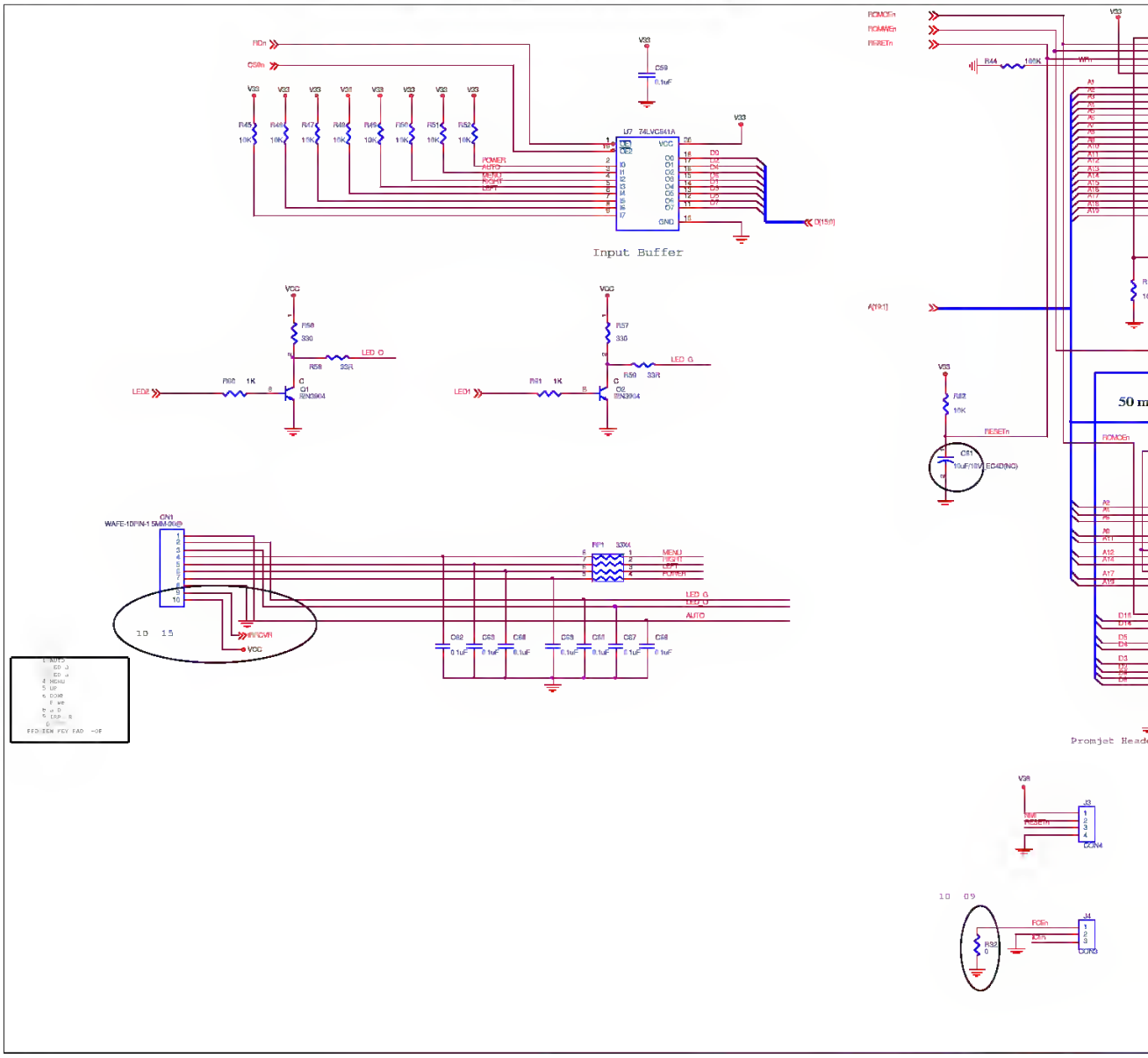
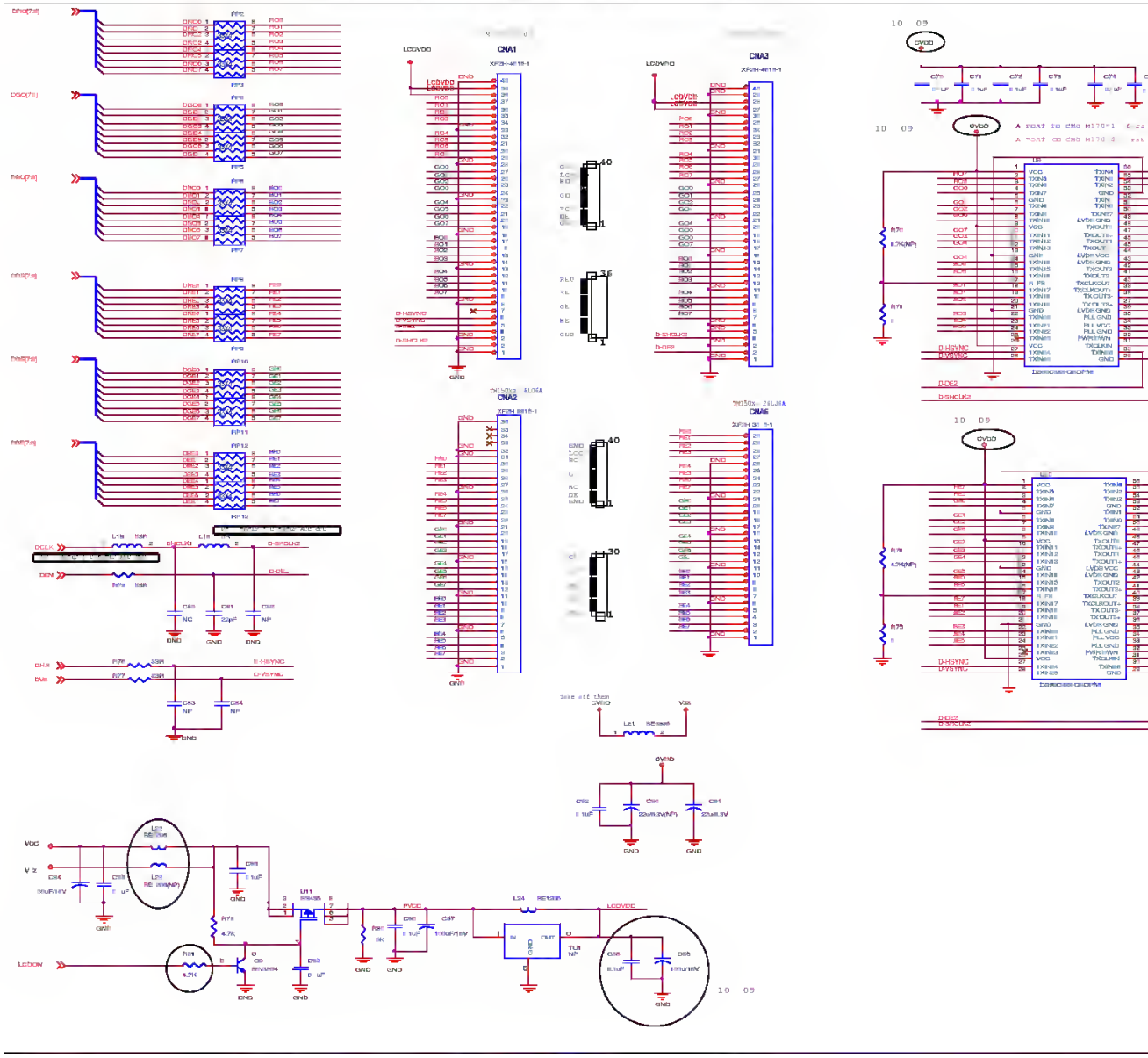

VGA VSYNC
VGA HSYNC
DDC SCL
DDC SDA
TXD PC
RXD PC
VCC
VSS
GAIN
AVSYNC
AHSYNC
74LVC14-SOP14
DAN217K(NP)
DEL U22


U4A
PW13x
Graphics and Video Port
U4C
PW13x Misc
U4D
Power and Ground
U5
74LV273A
U21 P2761A
XTAL14.31616
Sleep Mode 9ma max
Sleep Mode 35ma
40ma max
350ma max
80ma max
175ma max
3.3VADC
3.3VDVI
RXD
TXD
RESETn
NMI
SDA
SCL
RAIN
GAIN
BAIN
AVSYNC
AHSYNC
VPEN
VCLK
RTERM
A[19:1]
D[15:0]
RDn
WRN1
ROMOEn
ROMWEn
CS0n
CS1n


RDn
CSRn
U7 74LVC541A
VCC
GND
D[15:0]
POWER
AUTO
MENU
RIGHT
LEFT
Input Buffer
LED R
LED G
LED2
LED1
Q1 SN3904
Q2 SN3904
GN1
WAFE-10PIN-1.5MM-SMD
MRDVR
VCC
RP1 33X4
LED G
LED O
AUTO
ROMOEn
ROMWEn
RESETn
WRn
A[19:1]
50 m
Promjet Head
FCEn
RCEn



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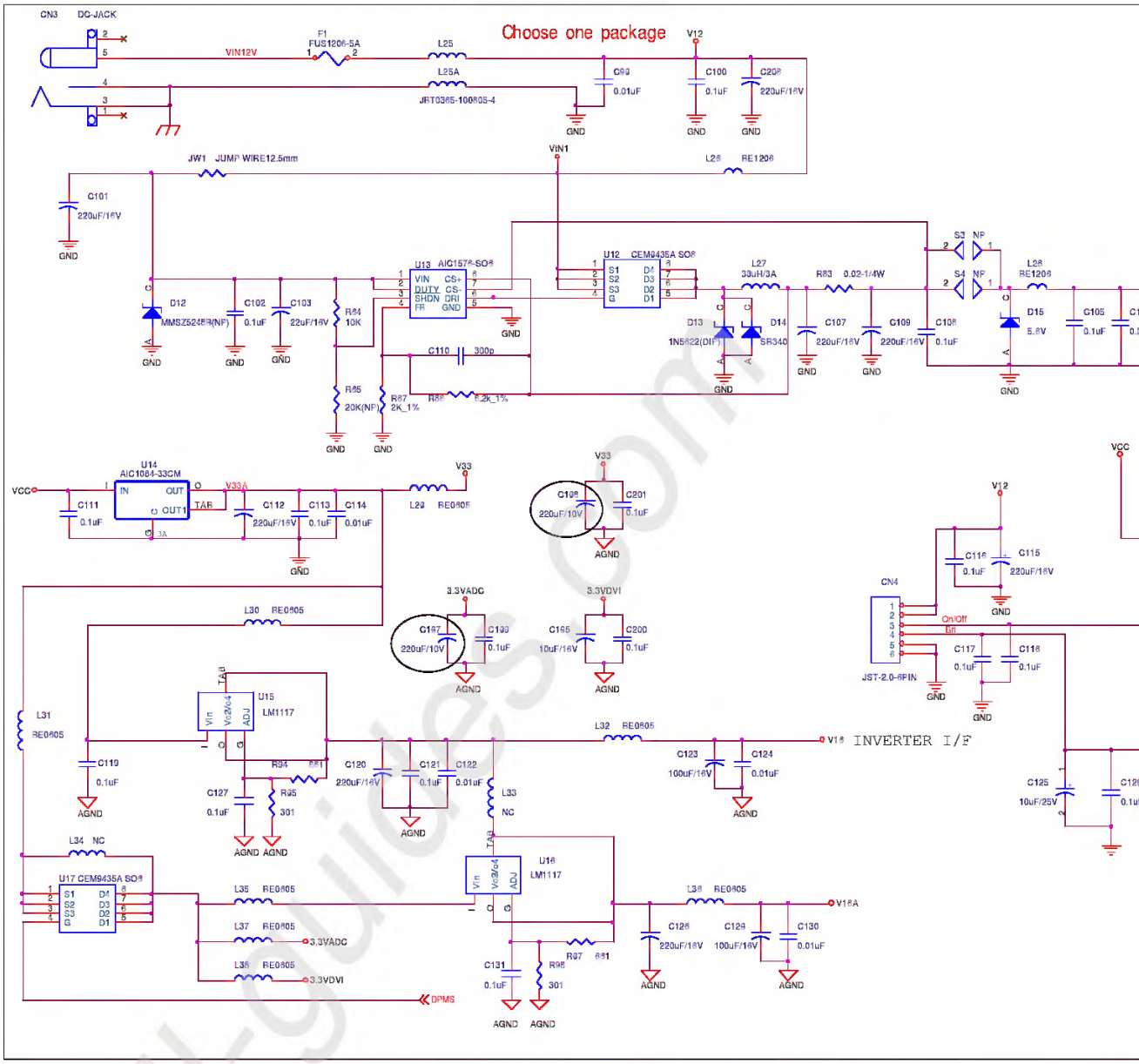

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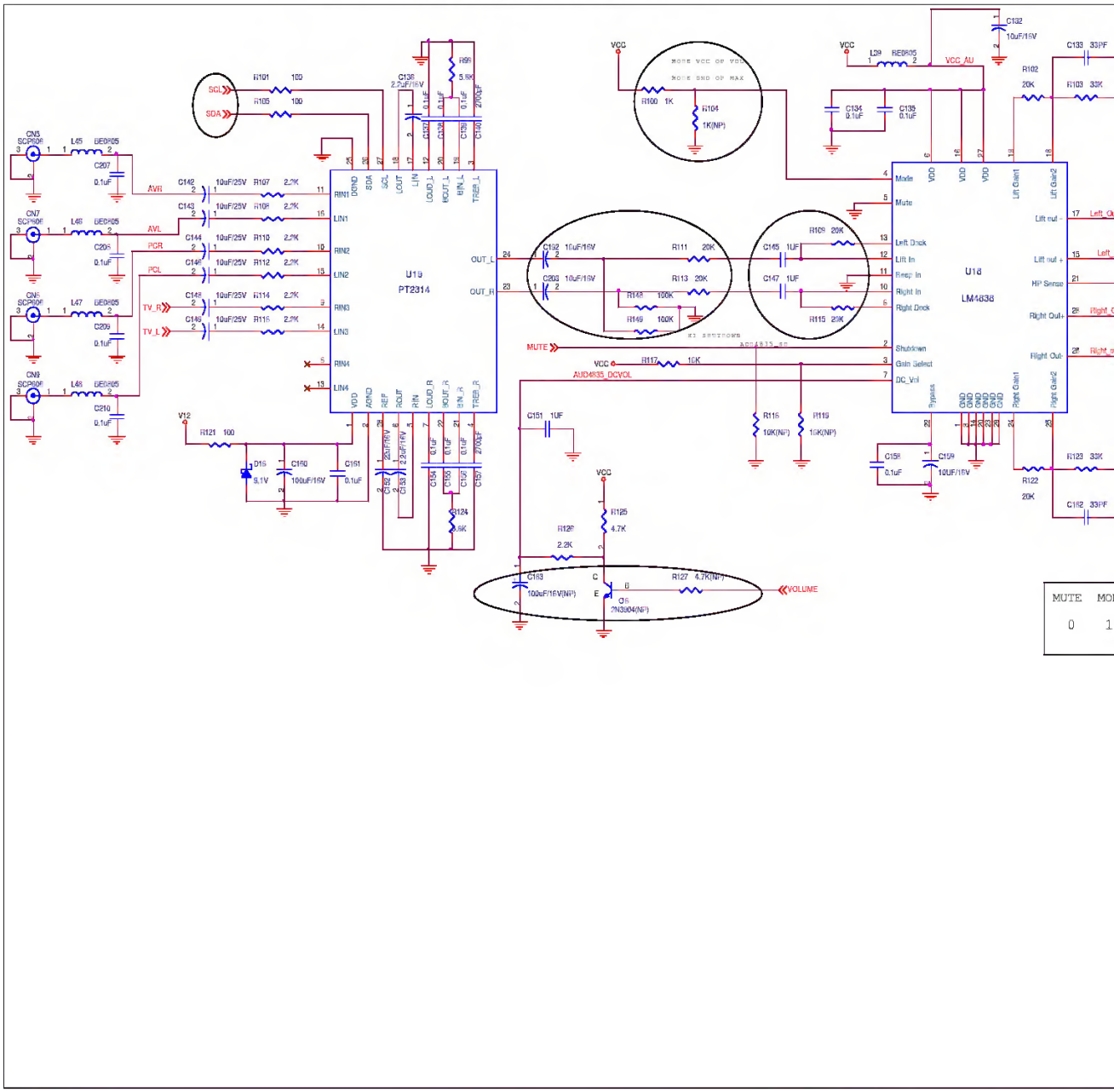

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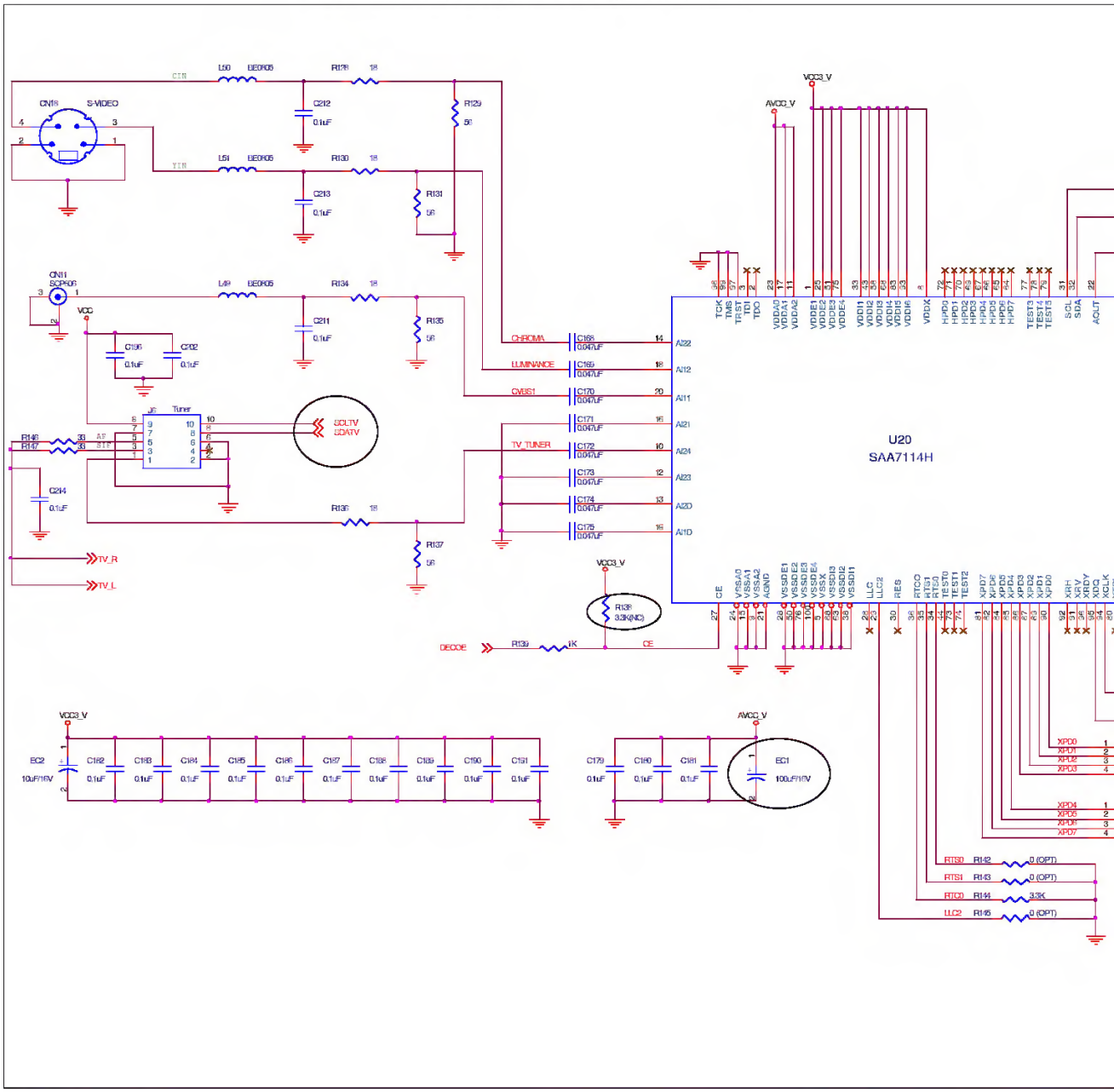

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